

Serial No.: 10/625,002

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Listing and Amendments to the Claims

Please amend claims 1, 5-7 and 11 as indicated. Please cancel claims 3-4.

1. (Currently Amended) Method for detecting a wobble signal, comprising the steps of:

generating a reference signal (RS) corresponding in phase and frequency to the desired an unmodulated wobble signal;

~~comparing an input signal (IS) comprising the wobble signal (WS) with the reference signal (RS); and~~

generating a sum signal (S1) and a difference signal (S2) of an input signal (IS), which comprises a wobble signal (WS) and the reference signal (RS);

performing a phase sensitive rectification of the sum signal (S1) and the difference signal (S2);

comparing the amplitudes of the rectified sum signal (S1) and the rectified difference signal (S2) to obtain the relative phase between the wobble signal (WS) and the reference signal (RS); and

outputting an output signal (OS) indicating the amplitude and the phase of the wobble signal;

~~wherein the comparing step comprises the steps of:~~

~~_____ generating a sum signal (S1) and a difference signal (S2) of the input signal (IS) and the reference signal (RS); and~~

~~_____ comparing the amplitudes of the sum signal (S1) and the difference signal (S2) to obtain the relative phase between the wobble signal (WS) and the reference signal (RS).~~

2-4. (Cancelled)

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5. (Currently Amended) Method according to claim ~~3~~ 1, ~~wherein the comparing step further comprises~~ comprising the step of generating a further difference signal (DS) of said ~~processed~~ rectified sum signal (S1) and said ~~processed~~ rectified difference signal (S2).
6. (Currently Amended) Method according to claim ~~3~~ 1, ~~wherein the comparing step further comprises~~ comprising the step of integrating said further ~~processed~~ rectified sum signal (A1) and said ~~further processed~~ rectified difference signal (A2) over a wobble period.
7. (Currently Amended) Method according to claim 5, ~~wherein the comparing step further comprises~~ comprising the step of integrating said further difference signal (DS) over a wobble period.
8. (Previously Presented) Method according to claim 1, wherein the reference signal (RS) is calculated.
9. (Previously Presented) Method according to claim 1, wherein the reference signal (RS) is stored in a table.
10. (Cancelled)
11. (Currently Amended) Apparatus for reading from and/or writing to recording media, **characterized in that** it comprises means for performing a method according to any of claims 1 and ~~3-9~~ 5-9.